PK-232 Newsletter

1202 E. 23rd Street
Lawrence, Kansas 66046
(913) 842-7745

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IN THIS ISSUE:

New Firmware Option

New WEFAX, MAXFAX™ and SUPERFAX™

KA6M
HENRY S MAGNUSKI
2019 BAREARA DR
PALO ALTO CA 94303

Attention: Latest Packet News and Developments

Packet is Hot!

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https://archive.org/details/kantronics-news-1-2

Kantronics

K-HAM Newsletter

May 1988 Volume 1, No. 2

More than 20,000 Expected at Dayton

Each year, the Dayton *Hamvention*™ draws hams from around the world as one of the largest amateur radio conventions anywhere.

Kantronics will exhibit at the Hamvention for the 10th year. Meet our staff at booth #346, which is in the southeast section near the seminar rooms.

Kantronics has donated prizes to the Hamvention Committee including a *Kantronics All-Mode*™ packet radio controller, our fastest-selling packet unit!

See you in Dayton!

New! Battery Backup Feature

Many Kantronics customers in Japan wanted battery backup for their digipeaters and **KA-NODES™** . Kantronics responded with firmware 2.83 that allows the addition of a battery supplied RAM socket to back up all RAM.

The socket includes a lithium battery and circuitry for holding RAM. All new units have Firmware EPROM 2.83 which provides these *new* features:

A path listing of digipeaters when executing the JHeard or Nodes directives, a subject field for the Personal Packet Mailbox™, and added allowed characters and controls for CW with the Kantronics All-Mode™ (KAM).

As of April 1st, all Kantronics units have been shipped with firmware option 2.83. Battery socket extra.

WEFAX, MAXFAX™ and SUPERFAX™

If you purchase the **MAXFAX™** weather chart program, you now also receive the **SUPERFAX ™** program free on the same diskette. Using a **KPC™** or **KAM™** unit in WEFAX mode, you can receive, store to diskette, display on the screen, or print HF weather charts. This multi-mode WEFAX program is the first and best of its kind on the market. Other programs may leave you with a "print only" option, which cuts half the fun. *Only the best for Kantronics customers!*

Developments

Watchdog has bite

A new "watch-dog" timer board is available for the KPC-1™, KPC-2™ and KPC-2400™. The 1-1/2" square circuit board is installed inside the case and requires only four solder joints. KAM™ and KPC-4 units now come with this feature, standard. For upgrades, the board is only $12.50 including shipping and handling.

Commercial Packet Radio

Is your hobby also your profession? You will be interested to know that Kantronics also manufactures commercial packet units, the **RFPM™** and the **TDM™**.

The RFPM features 1200/2400 baud packet and data encryption. The TDM features compatibility with trunked radio systems (SMR) for commercial two-way radio. Pass the word along that Kantronics quality is in Commercial Radio, too!

Morse Tutor™

Kantronics has the PC-based Morse Tutor™ training program written by Jay Duthler for $22.50. This full-featured instructional course includes structured groups,random groups, random QSOs and grading. (Farnsworth)

Packet Exports

Hams around the world are buying Kantronics packet units. We are shipping to Japan, Indonesia, The Philippines, Australia, Africa, England, Spain, France, Belgium, Norway, Denmark, Finland, Sweden, Germany, Italy and Iceland (Brrr).

Kantronics Company, Inc.
(913) 842-7745
1202 E. 23rd Street
Lawrence, KS 66046

MSK adds 3db, cuts QRM

Go Turbo with New Minimum Shift Keying

Kantronics announces three printed circuit board add-on modems for KAM, KPC-4, TNC-1 and TNC-2 owners.

Minimum Shift Keying, MSK, provides:

- **Lower adjacent channel interference**
- **Less bandwidth to transmit at a specified baud rate**
- **Better bit-error-rate**
- **More immunity to co-channel and adjacent channel interference**
- **Better performance during fading**

Suggested Retail

MSK for KAM and KPC-4 $79.95

The Kantronics MSK plug-in modem for the KAM or KPC-4 provides for MSK modulation at 300 or 1200 baud. Commercial users and engineers have proven MSK to be superior to FSK (frequency-shift keying) on 300 baud HF operation.

On a commercial HF STA authorization, Kantronics found MSK at 300 and 1200 to be *at least* **3 db** better than FSK while still more resistant to interference.

In addition, when in the MSK packet mode, the KAM features enhanced bargraph tuning, and software-selectable baud rate.

*Cannot operate dual port in this mode.

Suggested Retail

QPSK for KAM or KPC-4 $69.95

The Kantronics QPSK modem board plugs directly into a KAM or KPC-4 for 1200 BPSK or 2400 baud quadrature phase shift keying.

QPSK is great for transmission of long binary or text files on VHF and has been shown to be superior in bit-error-rate performance when compared with FSK. QPSK operation is software selectable.

Suggested Retail

QPSK for TNCs and clones* $69.95

Kantronics 2400-TNC modem is pluggable into TNC-1 and TNC-2 units as well as their clones. The operation provided is comparable to the Kantronics KAM QPSK modem described on this page and the Kantronics KPC-2400 unit on page 7.

*Heath TNC Model HD-4040, TAPR TNC-1, TAPR TNC-2, AEA PK-1, AEA PK-80 and MF J-1270

HEATH TNC MODEL HD-4040 IS A TRADEMARK OF HEATH COMPANY

TAPR TNC-1 AND TNC-2 ARE TRADEMARKS OF TUCSON AMATEUR PACKET RADIO

AEA PK-1 AND PK-80 ARE TRADEMARKS OF ADVANCED ELECTRONIC APPLICATIONS, INC.

MFJ 1270 IS A TRADEMARK OF MFJ ENTERPRISES, INC.

ANNOUNCING

KANTERM-PC™

The new terminal program designed just for the Dual-Port Operator

SUGGESTED RETAIL $39.95 PLUS $2.50 SHIP/HANDLE FROM FACTORY

KANTERM-PC is Kantronics' newest terminal program for IBM-PCs and compatible computers. It was created specifically to enhance the operation of Kantronics **true dual-port units, KAM* and KPC-4*.**

KANTERM-PC features five different selectable screen configurations. Dual-port operators get great flexibility.

Horizontal Port Split
Vertical Port Split
HF or Port 1 (only)
VHF or Port 2 (only)
Combined Port 1/Port 2 Full Screen

Additional Features:

KANTERM-PC also features 37 user-loaded buffers of 254 characters each, a pop-up menu of program options, a real-time clock with date, and automatic word-wrapping of received text. Also includes; active cursors when menu is up, horizontal and vertical scrolling, 256-line scroll-back, xon/xoff status, screen restore after menu and cursor hide.

*KAM AND KPC-4 ARE TRADEMARKS OF KANTRONICS COMPANY, INC.

Now Includes 32K RAM,
The Personal Packet Mailbox
And TCP/IP Compatibility

KPC-4

Kantronics Dual Port Communicator

KPC-4™ is your GATEWAY into packet flexibility. By featuring two fully functional packet ports, digipeating on each port, and gateway between ports, KPC-4 lets you bridge two frequencies on one band, or operate crossband.

What's more–digipeating and gateway operations occur simultaneously while you're connected on one or both ports.

KPC-4's RS-232/TTL terminal interfacing provides universal compatibility to all computers, while stream switching provides for access to both radio ports.

KPC-4 also contains the popular Personal Packet Mailbox™ feature, (optional on all other Kantronics Packet Communicators). You or others can leave and retrieve messages from the Personal Packet Mailbox.

Power supply, connectors, and cables are provided, but the user must supply the transceiver mic connector and the computer's RS-232 or TTL connector.

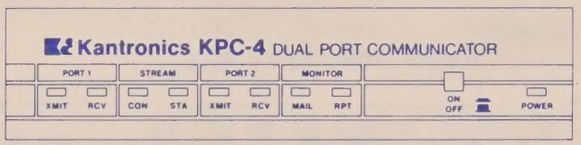
Suggested Retail $329.00.

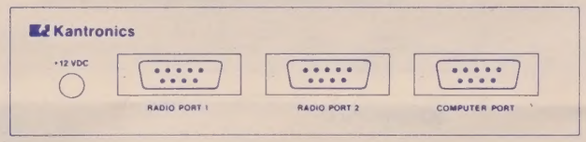
KPC-4 FEATURES

- Two simultaneously operable radio ports, both ports operating at 1200 baud.
- Each port includes a watchdog timer.
- Automatic gateway operation between ports.
- Command driven, like KPC-2 or KAM, with over 100 software commands.
- Kantronics Personal Packet Mailbox feature included.
- External modem connection point provided for use with optional modem.
- RS-232 or TTL level operation by jumper selection.
- 32K bytes RAM, 64K bytes EPROM, 512 bytes EEPROM, 63B03X processor.
- RAM expandable to 64K bytes for use by Personal Packet Mailbox.
- Power monitor circuit to control microprocessor reset.
- Kantronics' industry standard extruded aluminum case.
- ARRL adopted AX.25 protocol.
- FCC part 15 certified.

New! WEFAX & KA-NODE

Panel Descriptions





Front Panel

The front panel is divided into four sections, each section containing two LED indicators.

PORT 1: XMIT and RCV LEDs indicate transceiver functions on radio port 1.

STREAM: CON and STA LEDs indicate a packet connect and an unacknowledged packet on the current stream.

PORT 2: XMIT and RCV LEDs indicate transceiver functions on port 2.

MONITOR: MAIL indicates connection to your PBBS, and **RPT** indicates when digipeating or gateway functions are in use.

ON/OFF switch provides power control to the KPC-4.

POWER LED illuminates when power is ON.

Back Panel

+12 VDC—Power is supplied to the unit via this jack. Power supply is provided.

RADIO PORT 1 / RADIO PORT 2—Both radio ports include Push-To-Talk, AFSK, Audio I/O, External Carrier Detect, and Ground lines. An External Reset line is present on pin 7, port 1. Pin 7, port 2 offers +12 VDC. Two DB-9 connectors with cables provided.

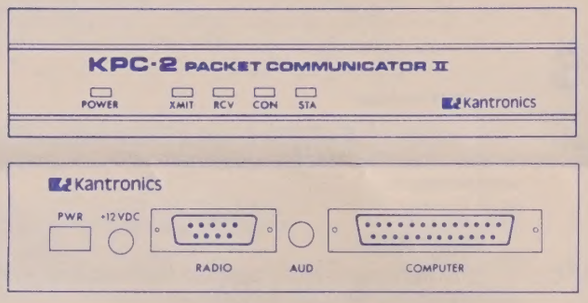
COMPUTER—For RS-232 or TTL connection from the KPC-4 to the computer or data terminal. Transmit Data, Receive Data, Request to Send, Clear to Send, Data Carrier Detect and Signal Ground lines are available. DB-9 connector (PC AT style) and cable are provided.

UNIT SIZE—1.9″ x 5.9″ x 8″

Now Includes 32K RAM,
The Personal Packet Mailbox
And TCP/IP Compatibility

Kantronics Packet Communicator II

Panel Descriptions



Front Panel

Five front panel LEDs indicate **POWER** on/off, **XMIT**, **RCV**, **CONNECT**, and **STATUS**.

Back Panel

+12VDC–Power is attached to the unit via this jack. The power supply is provided.

RADIO–9-pin DB connector providing PTT control, AFSK output lines, audio input, RF carrier detect, and alternate power input.

Pre-wired cable provided.

AUDIO–Connects to external speaker for monitoring received audio.

COMPUTER–For RS-232 or TTL connection from the KPC-2 to the computer or data terminal. Transmitted data, received data, request to send, clear to send, data set ready, data terminal ready, carrier detect, ground lines, and alternate power input are available. DB-25 connector and cable provided.

UNIT SIZE–1.9" X 5.9" X 8"

New! WEFAX & KA-NODE

KPC-2

Work VHF or HF Packet on any computer with Kantronics' complete Packet Communicator, KPC-2™. This Kantronics designed AX.25 version 2 TNC features a built-in HF and VHF modem, full duplex operation, and multiple connect capabilities. The serial RS-232 or TTL port, combined with the enhanced generic command structure, allows KPC-2 to operate with any computer. KPC-2 is compatible with all existing TNCs too.

KPC-2 includes 128K EPROM, 16K RAM–expandable to 32K, and 4K EEPROM.

Any terminal or communications program may be used to access KPC-2's internal programming. Pacterm™, from Kantronics, is available for

VIC-20, Commodore 64/128, TRS III, IV, IVP, and IBM/compatible computers. See "Terminal Programs" for more information.

Power supply, connectors, and cables are provided, but the user must supply the transceiver mic jack, and the computer RS-232 or TTL connector.

Suggested Retail $169.00

KPC-2 FEATURES

- AX.25 Version 2 protocol.
- Compatible with any computer having an asynchronous, I/O port.
- Command driven by your computer with over 100 commands.
- RS-232 or TTL level operation by jumper selection.
- Computer to Communicator baud rates of 300, 600, 1200, 2400, 4800, and 9600.
- Packet radio baud rates of 300, 400, 600, and 1200.
- Includes VHF and HF modem, software selectable.
- RF carrier detect and software squelch.
- Six software selectable tone pairs, including Bell 103, 202, CCITT V.21, and CCITT V.23.
- Full duplex capability.
- Multiple connects, up to 26 simultaneous connections possible.
- Full 16K RAM standard, expandable to 32K.
- 63B03X/63B03Y microprocessor.
- FCC Part 15 certified.

Announcing!
The KT Series from Kantronics...

5 New Transceivers

CW and Single Sideband

20 Watts PEP

Weighs less than 2 pounds!

Kantronics announces the introduction of five single-sideband, CW transceivers, one each for:

80 meters

40 meters

20 meters

15 meters

and 10 meters

The **Kantronics KT Series** features noise blanker, 20-watts PEP output, LED digital readout of the entire band in 100 Hertz steps and receiver incremental tuning (RIT).

The KT-110, 10-meter transceiver, also features a band switch between the 28 and 29-MHz segments of the band.

Ask your **Kantronics Authorized Dealer** for information on availability in your area. Or call the factory at **(913) 842-7745.**

Suggested Retail $389.00

General Specifications:

KT-180 for 80 meters - 3.500 to 3.9999 MHz

KT-140 for 40 meters - 7.000 to 7.4999 MHz

KT-120 for 20 meters - 14.000 to 14.4999 MHz

KT-115 for 15 meters - 21.000 to 21.4999 MHz

KT 110 for 10 meters -28.000 to 29.9999MHz

Antenna Impedance - 50 Ohms

Supply Voltage - DC 13.8V (neg ground) transmission, 5A max. reception .7 A max

VFO Dial Indication - PLL synthesized digital VFO, 4-digit LED display

Dimensions - 10"H by 7"W by 2-3/4"D

Weight - 1-1/4 pounds

Receiver - Superheterodyne, IF 9 MHz, sensitivity for .4uv, S+N/N=10dB

Audio - 1 W with 8-ohm output

Kantronics
RF Data Communications Specialists

1202 E. 23 Street Lawrence, Kansas 66046
(913) 842-7745

Kantronics
Authorized Dealer List

Arizona
PHOENIX - Ham Radio Outlet
(602) 242-2515

California
ANAHEIM - Ham Radio Outlet
(800) 854-6046
BURLINGAME - Ham Radio Outlet
(415) 342-5757
CULVER CITY - Jun's Electronics
(800) 882-1343
LOS ANGELES - Henry Radio
(213) 820-1234
OAKLAND - Ham Radio Outlet
(415) 534-5757
SACRAMENTO - The Radio Place
(916) 441-7388
SAN DIEGO - Ham Radio Outlet
(619) 560-4900
SAN JOSE - Quement Electronics
(408) 998-5900
VAN NUYS- Ham Radio Outlet
(818) 988-2212

Colorado
DENVER - CW Electronics
(303) 832-1111
Colorado Communications Center
(800) 227-7373
FLORENCE - Miley's Radio
(303) 784-3040

Delaware
NEW CASTLE - Delaware Amateur Supply
(800) 441-7008
WILMINGTON - Amateur and Advanced Electronics
(302) 478-2757

Florida
CLEARWATER - Amateur Electronic Supply
(813) 461-4267
CUTLER RIDGE - Southern Technologies
(305) 238-3327
FORT LAUDERDALE - Mike's Electronics
(305)491-7110
Eli's
(305) 525-0103
HIALEAH - Hialeah Communications
(305) 885-9929
MIAMI - International Radio Systems
(305) 594-4313
Southern Technologies
(305) 238-3327
ORLANDO - Amateur Electronic Supply
(800) 327-1917

Georgia
ATLANTA - Ham Radio Outlet
(404) 263-0700
MACON - Specialized Communications
(912) 742-2485

Idaho
PRESTON - Ross Distributing
(208) 852-0830

Illinois
CHICAGO - Erickson Communications
(312) 631-5181
LOCKPORT - Organs and Electronics
(815) 838-1580
COLLINSVILLE - Floyd Electronics
(618) 345-6448

Indiana
EVANSVILLE - The Ham Station
(800) 523-7731

Kansas
WELLINGTON - Dandy's
(316) 326-6314

Michigan
FLUSHING - Dentronics
(313) 659-1776
MT. CLEMENS - Michigan Radio
(313) 469-4656

Missouri
KANSAS CITY - Missouri Communications
(800) 821-7323

Nevada
LAS VEGAS - Amateur Electronic Supply
(800) 634-6227
SPARKS - Reno Radio
(702) 331-7373

New Hampshire
SALEM - EGE, Inc.
(603) 898-3750

New York
NEW YORK - Barry Electronics
(212) 925-7000

Ohio
HAMILTON - R & L Electronics
(513) 868 -6399
REYNOLDSBURG - Universal Amateur Radio
(614) 866-HAMS

WICKLIFFE - Amateur Electronic Supply
(800) 321-3594

Pennsylvania
PLEASANT GAP - The Ham Store
(814) 238-7398

South Dakota
WATERTOWN - Burghardt Amateur Radio
(605) 886-7314

Texas
HOUSTON - Madison Electronics
(713) 520-7300
Mission Consultants
(713) 879-7764
Texas Communication Center
(713) 957-8011
PLANO - Texas Towers
(800) 272-3467

Virginia
WOODBRIDGE - EGE, Inc.
(800) 336-4799

Washington
SEATTLE - C Comm
(800) 426-6528 (In Wash. 800-562-6818)

Wisconsin
MILWAUKEE - Amateur Electronic Supply
(800) 558-0411

Canada
DOWNSVIEW, ONTARIO - Atlantic Ham Radio
(416) 636-3636
Century 21 Communications
(416) 737-0717
N. VANCOUVER, BR. COLUMBIA - Glenwood Trading Company
(604) 984-0404
ST. LAURENT, QUEBEC - Hobbytronique
(514) 336-2423
VANCOUVER, BR. COLUMBIA - Com-West Radio Systems
(604) 321-1833
TORONTO, ONTARIO - W.A. Detenbeck
(416) 531-9931

Kantronics
RF Data Communications Specialists
1202 E. 23rd Street Lawrence, Kansas 66046

(913) 842-7745

Order Form

Name

FIRST	INITIAL	LAST

Date

MONTH	DAY	YEAR

Ship Address

STREET ADDRESS	CITY	STATE	ZIP

COUNTRY	ADDITIONAL ADDRESS INFORMATION

Contact Info

DAYTIME TELEPHONE	MAILING ADDRESS

QTY	ITEM DESCRIPTION	VERSION/EQUIPMENT YOU OWN NOW, IF ANY	COST	TOTAL

Sub-Total	
Residents of these states please add SALES TAX: Kansas 4.5%, Missouri 4.225%, Nebraska 5.5%, Iowa 4%, Illinois 5%, South Dakota 6%, Minnesota 6%, Michigan 4%. BASE ON SUB-TOTAL ONLY.	
Residents of Nebraska and South Dakota please add CITY TAXES.	
SHIPPING/HANDLING Add $3/unit or $2.50 for up to 3 software diskettes for shipping anywhere in NORTH AMERICA.	
OUTSIDE NORTH AMERICA add $35 U.S. FUNDS/unit or $7.50 U.S. FUNDS for up to 3 software diskettes for INTERNATIONAL ship and handle. Differences over 10% will be billed or refunded.	
FOR C.O.D. DELIVERY add $2.50 per order.	
Total	

Payment Method

CARD NUMBER	[]MC []V	EXPIRATION DATE
CHECK [] NUMBER	[] MONEY ORDER NUMBER	
SIGNATURE X		

Kantronics, 1202 E. 23rd St., Lawrence, KS 66046

KANTFORM

Battery Backup if You Already Own a Kantronics TNC

All Kantronics customers who purchased a Kantronics TNC **after March 1, 1988 are automatically eligible to receive a free upgrade to firmware version 2.83**. All you have to do is provide proof of purchase with purchase date when submitting your warranty card. Include your current model, current firmware level (stamped on the label on top of your current EPROM) and RAM part number.

Even if you purchased your Kantronics TNC **prior to March 1, 1988,** you can purchase the option. Refer to the table to your right for pricing. If you have a **KPC–1™** unit, you will need to contact the factory directly to place an order.

In either of the two cases above, you will need to purchase a Battery Backup Socket if you intend to utilize the optional lithium battery storage of RAM. If this battery "Smart Socket" is ordered it must be used with a 62256 static RAM. Our service department is prepared to assist you if you need more information. You will also require a new manual of your current Kantronics TNC version level is less than 2.7.

Current Unit	Socket/ EPROM	EPROM only	Manual
KAM™	$55.00	$20.00	$10.00
KPC–4™ (32–K)	$55.00	$20.00	$10.00
KPC–4™ (64K)	$90.00	$20.00	$10.00
KPC–2™ (16K)	$45.00	$10.00	$ 7.50
KPC–2™ (32K)	$30.00	$10.00	$ 7.50
KPC–2400™ (16K)	$45.00	$10.00	$ 7.50
KPC–2400™ (32K)	$30.00	$10.00	$ 7.50

Features include ability to add backup for PBBS. PBBS protected during soft reset w/o backup, keyboard entry of messages into PBBS, PBBS subject field with prompts, HELP available from PBBS and KA–NODE™, complete digipeater path listing of stations and Nodes heard and KA–NODE recognition of NETROM™ in Nodes heard list.

Battery Backup with New Kantronics TNCs

All Kantronics TNC units shipped from the factory **after April 1, 1988** will include the necessary firmware (2.83) to support the battery backup socket described on page 1. The "Smart Socket" itself, however, is **optional** and must be purchased separately.

When ordering the socket, you must tell us your current model, and make sure the firmware level printed on the top of your EPROM is 2.83, and include the RAM part number.

Kantronics TNC	"Smart Socket" Only
All KPC and KAM units shipped from factory after April 1, 1988 have the necessary firmware version 2.83 to support Battery Backup.	$20.00 all units

NETROM IS A TRADEMARK OF SOFTWARE 2000

Now Includes 32K RAM,
The Personal Packet Mailbox
And TCP/IP Compatibility

New! WEFAX & KA-NODE

KAM

Kantronics All Mode Communicator

We combined the features of our KPC-2 and UTU-XT to give you a true ALL-MODE unit, KAM™. Now you can operate VHF Packet, and HF Packet, CW, RTTY, ASCII, and AMTOR all with one unit.

KAM features HF and VHF radio ports, simultaneous HF and VHF Packet connects and digipeating, and VHF/HF gateway.

KAM also features bargraph tuning, user programmable Mark and Space tones for RTTY and HF Packet, as well as limiter/limiterless operation on HF for weak signal operation. KAM's separate CW demodulator is also center frequency and bandwidth programmable.

KAM's RS-232/TTL terminal interfacing provides universal compatibility to all computers, including Commodores and PC compatibles.

If you're looking for increased sensitivity and the greatest amount of flexibility in an all mode unit, look to KAM, the Kantronics All Mode.

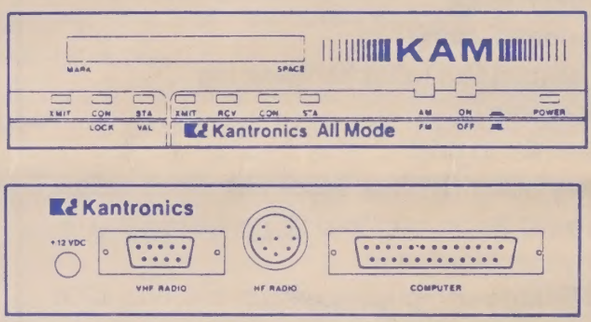
Power supply, cables and connectors are included with KAM, but the user must supply the transceiver mic jack, and the computer RS-232 or TTL connector.

Suggested Retail $319.00

KAM's FEATURES

- HF and VHF radio ports.
- Simultaneous HF and VHF Packet connects and digipeating.
- HF/VHF gateway.
- Transmit/receive CW 6-99 WPM; RTTY/ASCII 45-300 baud; ARQ, FEC, SELFEC, Listen ARQ; VHF and HF Packet.
- Command driven by your computer with over 100 software commands.
- User programmable baud rates for RTTY/ASCII-selectable in one-baud increments.
- User programmable MARK and SPACE tones on HF, you choose the tones.
- Selective RTTY autostart operation.
- Separate CW demodulator filter with programmable center frequency and bandwidth.
- Separate CW keying relay for positive or negative keying.
- 12-pole programmable switched capacitance input filtering.
- Watchdog timers for both HF and VHF.
- Quartz synthesized AFSK or direct FSK operation.
- RS-232 or TTL level operation by jumper selection.
- 32K bytes RAM, 64K bytes EPROM, 512 bytes EEPROM, 63B03X processor.
- Compatible with any computer having an asynchronous serial I/O port.
- FCC Part 15 compliant.

Panel Descriptions



Front Panel

XMIT, CON/LOCK, STA/VAL indicators display status in AMTOR and HF Packet.

XMIT, RCV, CON, STA indicators display VHF Packet status.

Front panel controls include **FM (limiter), AM (limiterless)** sensitivity and **POWER** on/off.

TEN SEGMENT LED BARGRAPH displays Mark/Space RTTY tones and HF Packet tones.

Back Panel

+12 VDC–Power is supplied to the unit via this jack. The power supply is provided.

VHF RADIO–Push-to-talk, AFSK, Audio I/O, Ground, and Carrier Detect Lines are provided for connection to a VHF transceiver. DB-9 connector with cable is provided.

HF RADIO–Push-To-Talk, AFSK, Audio I/O, CW Key, FSK Keying, and Carrier Detect Lines are provided for connection to an HF transceiver. 8-pin DIN connector with cable is provided.

COMPUTER–for RS-232 or TTL connection from the KAM to the computer or data terminal. Transmitted data, received data, request to send, clear to send, ground, and Mark/Space scope output lines are available. DB-25 connector and cable are provided.

UNIT SIZE–1.9" X 5.9" X 9"

Commodore Users!

KANTERM™ 64 and 128

KANTERM is a comprehensive terminal program written for use with the Commodore 64 and 128 computers.

This program offers the features hams have been asking for:

- Split-screen
- Separate XMIT/XCV
- 10 user-load buffers
- 250 characters per buffer
- Menu driven load, edit, examine
- Auto save and restore
- Disk command menu
- On-screen clock
- Color control menu
- Auto beacon text using 'MHeard' log
- HELP screen
- Buffered list to print
- Memory buffer (170K or 340K) with disk overflow
- Sequential file transfer to Unit, print or screen in any combination
- KANTERM-to-computer speeds of 300, 600, 1200 baud rates
- Binary (pgm) file transfer
- Word Wrapping of received copy
- Auto set of Unit parameters with function call

ADDITONAL FEATURES WITH C-128 USE:

- 40- or 80-column modes
- Uses 2MHz clock in 80 column
- Line-status indicators
- Mini word processor for typing files to disk
- Save and Restore the Unit parameters
- Pop-up window with abbreviated HELP screen in 80 column

KANTERM can be used with most Kantronics "SMART" modems: KPC-1, KPC-2, KPC-4, KPC-2400, KAM and UTU-XT/(P). The C-128 programs run in 128 mode and provide 80-character lines.

SUGGESTED RETAIL
$29.95

KANTRONICS

Terminal Programs

All Kantronics "SMART" TUs and TNCs require some sort of terminal or communications program to access the Unit. Programs are currently available for:

IBM and compatibles
TRS-80 III, IV and IVP
Commodore 64 and 128

These programs are compatible with Kantronics KAM, KPC-1, KPC-2, KPC-4 and KPC-2400. (They will not operate the Interface or Interface II.)

Listings by Computer

Terminal software is available on each of these 5- 1/4" disks which includes the source code.

IBM-PC and compatibles

PACTERM: Features including Holding Buffer, File Transmission, Split Screen Display, Printer Operation and Program Transfers.

SUGGESTED RETAIL **$29.95** 3-1/2" DISKETTE VERSION **$34.95**

MAXFAX: Features display, store and print of WEFAX.

SUGGESTED RETAIL **$19.95**

KANTERM-PC: See announcement on page two.

SUGGESTED RETAIL **$39.95** 3-1/2" DISKETTE VERSION **$44.95**

TRS-80 III, IV, IVP

PACTERM: Features include Holding Buffer, File Transmission and Program Transfers.

SUGGESTED RETAIL **$29.95**

Commodore 64 and 128

PACTERM: Features include Holding Buffer, file Transmission, Printer Operation and Program Transfers.

SUGGESTED RETAIL **$19.95**

MAXFAX: Features display, store and print of WEFAX.

SUGGESTED RETAIL **$19.95**

KANTERM 64/128: See announcement this page.

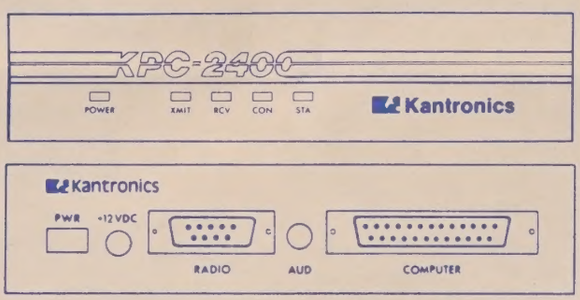
SUGGESTED RETAIL **$29.95**

Now Includes 32K RAM,
The Personal Packet Mailbox
And TCP/IP Compatibility

Kantronics Packet Communicator 2400

New! WEFAX & KA-NODE

Panel Descriptions



Front Panel

Five front panel LED's indicate **POWER** on/off, **XMIT**, **RCV**, **CONNECT** and **STATUS**.

Back Panel

+12VDC–Power is attached to the unit via this jack. The power supply is provided.

RADIO–9-pin DB connector providing PTT control, AFSK output lines, audio input, RF carrier detect, and alternate power input. Pre-wired cable provided.

AUDIO–Connects to external speaker for monitoring received audio.

COMPUTER–For RS-232 or TTL connection from the KPC-2400 to the computer or data terminal. Transmitted data, received data, request to send, clear to send, data set ready, data terminal ready, carrier detect, ground lines, and alternate power input are available. DB-25 connector and cable provided.

UNIT SIZE–1.9" X 5.9" X 8"

KPC-2400

When we set out to design the KPC-2400™, we wanted it to be fully compatible with existing units, and it is. The KPC-2400 combines the KPC-2 modem for 300, and 1200 baud operation, with our new PSK modem for 2400 BPS operation. This gives you 300, 1200 and 2400 BPS packet, all modes being software selectable with the HBAUD command. The KPC-2400 includes the RS-232/TTL jumper for easy, direct interface to any computer having an asynchronous, serial I/O port, including PC compatibles and the VIC/C-64 series. Power supply, cables, and connectors are provided with the KPC-2400, but the user must supply the transceiver mic jack, and the computer RS-232 or TTL connector.

Suggested Retail $329.00

Any terminal or communications software program can be used to establish communication between the computer and the KPC-2400. Pacterm™ by Kantronics is available for VIC-20, C-64/128, TRS-80 III, IV, IVP, IBM and compatible computers. See "Terminal Programs" in this catalog for more information.

If you own a TNC-1 or TNC-2, you can still accelerate into 2400 BPS packet with 2400 TNC (add-on) Modem™. It mounts directly above your TNC, and adds 2400 BPS packet, while retaining 1200 baud operation.

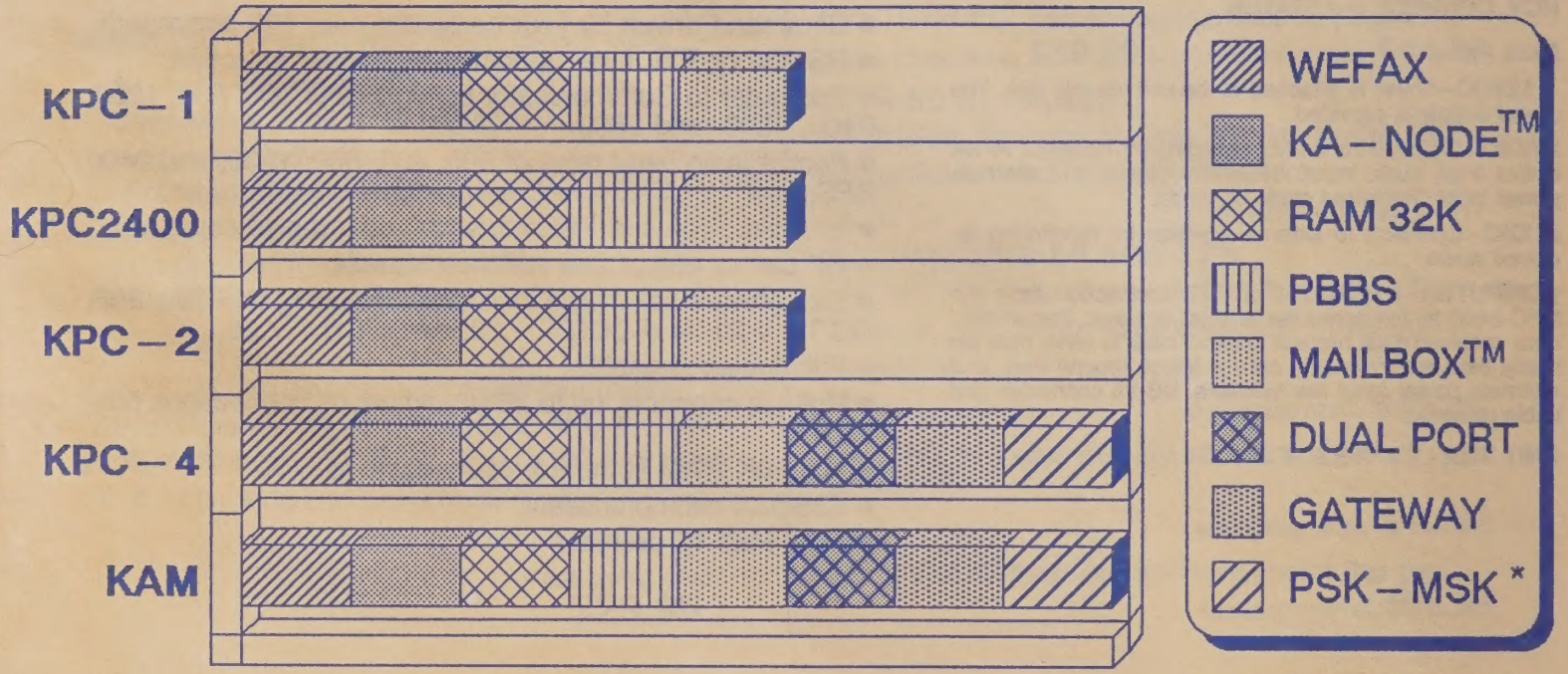
Suggested Retail $69.00

KPC-2400 FEATURES

- AX.25 Version 2 protocol.
- Compatible with any computer having an asynchronous, serial I/O port.
- Command driven by your computer, over 100 commands.
- RS-232 or TTL level operation by jumper selection.
- Computer to Communicator baud rates of 300, 600, 1200, 2400, 4800, and 9600.
- Packet radio baud rates of 300, 400, 600, 1200, and 2400 BPS.
- Includes FSK and PSK modems, software selectable.
- RF carrier detect and software squelch.
- Six software selectable tone pairs, including Bell 103, 202, CCITT V.21, and CCITT V.23, And CCITT V.26.
- Full duplex capability.
- Multiple connects, up to 26 simultaneous connections possible.
- Full 16K RAM standard, expandable to 32K.
- 63BO3X microprocessor.
- FCC Part 15 certified.

KANTRONICS Leads the Way...

Packet Radio



* PSK/MSK OPTIONAL

Advanced Features — U.S.A. Pride